

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

STEFAN VANHEESBEKE

Serial No.: To be assigned

Filed: Concurrently herewith

For: METHOD AND DEVICE FOR CONTROLLING A SELECTION DEVICE WITH  
SOLENOIDS FOR A WEAVING MACHINE

**PRELIMINARY AMENDMENT**

To the Director of Patents and Trademarks

Sir:

Before considering this application, kindly amend the  
application as follows:

In the Abstract:

Kindly enter and approve the abstract attached hereto.

In the Specification:

Page 1, before line 4, insert:

--BACKGROUND OF THE INVENTION--.

Page 5, before line 11, insert:

--SUMMARY OF THE INVENTION--.

Page 10, before line 9, insert:

--BRIEF DESCRIPTION OF THE DRAWINGS--.

before line 17, insert:

--DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS--

In the Claims:

Kindly amend claims 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13  
as follows:

3. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that the current regulator is a chopper transistor.

4. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that the electronic control circuit is provided in order to determine the reference current.

5. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that the electronic control circuit is provided in order to control means for generating a reference current so that in a first phase of the energising of the solenoids a higher reference current is generated than in a subsequent second phase.

6. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that the means for generating a reference current comprise a pulse width modulator.

7. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that parallel to each solenoid (1) a diode (D1) is provided, and that the current intensity is determined by the solenoid by means of a sensor resistance (R1).

8. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that apart from the electronic control circuit (2a, 2b), the regulating device only comprises the following discrete components per solenoid (1): a diode (D1), a chopper transistor (M1), a sensor resistance (R1) and a comparator (3) whether not provided with a filter.

9. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that the electronic control circuit is or comprises an integrated circuit.

10. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that the electronic power supply source (V1) to which the solenoid (1) is connected is a mains transformer with bridge rectifier.

11. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that the electronic power supply source (V1) is a power supply source with an invariable voltage.

12. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that the electronic control circuit (2a, 2b) comprises digital components.

13. (Amended) Hook selection device for a weaving machine, comprising a number of solenoids, **characterised in that it**

comprises at least one device for energising solenoids (1)  
according to claim 1.

REMARKS UNDER 37 C.F.R. 1.111

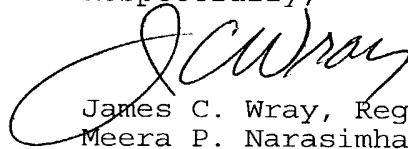
Reconsideration and allowance are respectfully requested.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made".

Applicant has also provided an abstract in compliance with the rules.

Entry of the amendment and consideration and allowance of all claims are respectfully requested.

Respectfully,



James C. Wray, Reg. No. 22,693  
Meera P. Narasimhan, Reg. No. 40,252  
1493 Chain Bridge Road  
Suite 300  
McLean, Virginia 22101  
Tel: (703) 442-4800  
Fax: (703) 448-7397

August 8, 2001

1. The first part of the document is a list of references. The references are listed in a standard format, with the author's name, the title of the work, and the publisher. The references are as follows:

1. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
2. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
3. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
4. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
5. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
6. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
7. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
8. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
9. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
10. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.

2. The second part of the document is a list of references. The references are listed in a standard format, with the author's name, the title of the work, and the publisher. The references are as follows:

1. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
2. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
3. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
4. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
5. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
6. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
7. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
8. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
9. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.
10. J. H. Van Veen, *The History of the Netherlands*, Amsterdam, 1967.

In the Claims:

Claims 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13 have been amended as below:

3. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 [or 2] characterised in that the current regulator is a chopper transistor.

4. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to [any of the preceding claims] claim 1 characterised in that the electronic control circuit is provided in order to determine the reference current.

5. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to [any of the preceding claims] claim 1 characterised in that the electronic control circuit is provided in order to control means for generating a reference current so that in a first phase of the energising of the solenoids a higher reference current is generated than in a subsequent second phase.

6. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to [any of the preceding claims] claim 1 characterised in that the means for generating a reference current comprise a pulse width modulator.

7. (Amended) Device for energising a number of solenoids

of a hook selection device for a weaving machine, according to [any of the preceding claims] claim 1 characterised in that parallel to each solenoid (1) a diode (D1) is provided, and that the current intensity is determined by the solenoid by means of a sensor resistance (R1).

8. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to [any of the preceding claims] claim 1 characterised in that apart from the electronic control circuit (2a, 2b), the regulating device only comprises the following discrete components per solenoid (1): a diode (D1), a chopper transistor (M1), a sensor resistance (R1) and a comparator (3) whether not provided with a filter.

9. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to [any of the preceding claims] claim 1 characterised in that the electronic control circuit is or comprises an integrated circuit.

10. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to [any of the preceding claims] claim 1 characterised in that the electronic power supply source (V1) to which the solenoid (1) is connected is a mains transformer with bridge rectifier.

11. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to [any of the preceding claims] claim 1 characterised in that the electronic power supply source (V1) is a power supply source with an invariable voltage.

12. (Amended) Device for energising a number of solenoids of a hook selection device for a weaving machine, according to [any of the preceding claims] claim 1 characterised in that the electronic control circuit (2a, 2b) comprises digital components.

13. (Amended) Hook selection device for a weaving machine, comprising a number of solenoids, **characterised in that** it comprises at least one device for energising solenoids (1) according to [any of the preceding claims] claim 1.

ABSTRACT OF THE DISCLOSURE

Device for energising a number of coils of a hook selection device for a weaving machine, comprising an electrical power supply source connected to the coils and a regulating device for regulating the current intensity in the coils, comprising for each coil: a comparator for comparing the current intensity in the coil to a reference current intensity, and a controllable current regulator (e.g. a chopper transistor) provided for regulating the current intensity in the coil in order to reach or approach this reference current intensity, whereas said regulating device comprises an electronic control circuit that is provided to control the current regulator of each coil of a number of coils, in order to reduce a variance between the actual current intensity in that coil and the reference current intensity measured by the comparator of that coil.